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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-------------------------|-----------------|----------------------|-------------------------|------------------|
| 10/705,627 | 11/10/2003 | Wen San Chou | 14039 B | . 4788 |
| 36672 | 7590 11/21/2006 | • . | EXAM | INER |
| CHARLES E. BAXLEY, ESQ. | | | HAMO, PATRIČK | |
| 90 JOHN ST THIRD FLO | | | ART UNIT | PAPER NUMBER |
| | K, NY 10038 | 3746 | | |
| | | | DATE MAILED: 11/21/2000 | 5 |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | 7/1 | | | | |
|--|---|--|--|--|--|--|
| | Application No. | Applicant(s) | | | | |
| | 10/705,627 | CHOU, WEN SAN | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Patrick Hamo | 3746 | | | | |
| The MAILING DATE of this communication a Period for Reply | ppears on the cover sheet wi | th the correspondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perions are reply within the set or extended period for reply will, by state that the perion of the perion of the perion of the maximum statutory perions are reply received by the Office later than three months after the maximum state of the perion of the | DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re- od will apply and will expire SIX (6) MON tute, cause the application to become AB | CATION. apply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133). | | | | |
| Status | | | | | | |
| 1) Responsive to communication(s) filed on 10 | November 2003. | | | | | |
| 2a) This action is FINAL . 2b) ⊠ The | This action is FINAL . 2b)⊠ This action is non-final. | | | | | |
| 3) Since this application is in condition for allow | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | |
| closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | |
| Disposition of Claims | | | | | | |
| 4) Claim(s) 1-3 is/are pending in the application. | | | | | | |
| 4a) Of the above claim(s) is/are withdo | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | |
| 5) Claim(s) is/are allowed. | | | | | | |
| 6)⊠ Claim(s) <u>1-3</u> is/are rejected. | ⊠ Claim(s) <u>1-3</u> is/are rejected. | | | | | |
| 7) Claim(s) is/are objected to. | | | | | | |
| 8) Claim(s) are subject to restriction and | l/or election requirement. | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Exami | ner. | | | | | |
| 10)⊠ The drawing(s) filed on 10 November 2003 is | s/are: a)∏ accepted or b)⊠ | objected to by the Examiner. | | | | |
| Applicant may not request that any objection to the | | | | | | |
| Replacement drawing sheet(s) including the corre | | | | | | |
| 11) The oath or declaration is objected to by the | Examiner. Note the attached | Office Action or form PTO-152. | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: | gn priority under 35 U.S.C. § | 119(a)-(d) or (f). | | | | |
| Certified copies of the priority docume | nts have been received. | | | | | |
| 2. Certified copies of the priority docume | · | • | | | | |
| 3. Copies of the certified copies of the pr | | received in this National Stage | | | | |
| application from the International Bure | • | | | | | |
| * See the attached detailed Office action for a li | st of the certified copies not t | received. | | | | |
| Attachment(s) | | • | | | | |
| 1) X Notice of References Cited (PTO-892) | | ummary (PTO-413) | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) | |)/Mail Date formal Patent Application | | | | |
| Paper No(s)/Mail Date 10 Nov 03. | 6) Other: see | | | | | |

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DETAILED ACTION

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 341. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chou 6,095,758 in view of Karassik et al., "Pump Handbook".

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Chou discloses a structure for a compact air compressor including a base or securing seat 1 with an opening 10 including a peripheral flange 101, an eccentric weight 20 including a shaft 21 extending therefrom and secured to the base and a pin 24 eccentric relative to the shaft, a cylinder 17 including a piston 30 rotatably coupled to the pin through link 34, a gear 22 attached to weight 20, and a motor 15 secured to the base via screw rods 13 and including a pinion or main gear 16 engaged with gear 22 to rotate the gear and weight relative to the base about shaft 27 (figure 4) and reciprocate the piston rod in the cylinder (column 3, line 66 – column 4, line 3), a chamber or receiving recess 2A formed in gear 22 to receive weight 20 and two bars or shoulders extending from gear 22 to form a peripheral casing to secure the weight (column 3, lines 4-7).

Chou does not disclose a bearing engaged in the opening of the base and retained in the peripheral flange of the base.

However, "Pump Handbook" teaches that bearings were used to keep a rotating shaft in correct alignment with a stationary part (p. 2.149) and that ball bearings "with their high-speed capabilities and low friction" are ideal for small and medium-sized applications (p. 2.150).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine Chou's invention with a ball bearing to reduce friction on the rotating shaft and keep the shaft in correct alignment with the stationary base (pp.2.149-2.150).

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Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick Hamo whose telephone number is 571-272-3492. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ehud Gartenberg can be reached on 571-272-4828. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PH

20061115

EHUD GARTENBERG SUPERVISORY PATENT EXAMINER